

In the Specification:

Please replace paragraph 13 that states, "Figure 5 is a block diagram of AC and DC extraction circuit portions of the controller" with the following paragraphs:

Figure 5-5a is a block diagram of an exemplary embodiment of an AC and DC extraction circuit portions of the controller.

Figure 5b is a block diagram of another exemplary embodiment of an AC and DC extraction circuit portions of the controller.

Please insert the following paragraph immediately after paragraph 26 that begins with the words "Referring now to Figure 4..." and ends with the words "... an input of the summation circuitry 100." with the following:

Referring now to an exemplary embodiment of the current invention as depicted in Figure 5a, each photo-sensor 50 in the array comprises a photo-diode 140. Each DC extraction circuit 110 comprises a DC current sensor 150 having an input connected to the cathode of the corresponding photo-diode 140 and each AC extraction circuit 120 comprises a transimpedance amplifier 160 coupled to the anode of the corresponding photo-diode 140.

Please replace paragraph 27 that begins with the words " Referring now to Figure 5, each photo-sensor 50 in the array comprises..." and ends with the line "... amplifier 160 coupled to the cathode of the corresponding photo-diode 140." with the following:

Referring now to an exemplary embodiment of the current invention as depicted in Figure 5b, each photo-sensor 50 in the array comprises a photo-diode 140. Each DC extraction circuit 110 comprises a DC current sensor 150 having an input connected to the anode of the corresponding photo-diode 140 and each AC extraction circuit 120 comprises a transimpedance amplifier 160 coupled to the cathode of the corresponding photo-diode 140.